
Routine maintenance

You must service batteries and air filters regularly. Follow the guidelines in this chapter to maintain batteries and air filters.

Pedestal air filter

There is an air filter in the pedestal of each column (in all options except 21A). Service the air filters once a month. For instructions on replacing the air filter, see *Meridian 1 hardware replacement* (553-3001-520).

If an air filter is damaged in any way, discard it and install a new one. If a dirty air filter is not damaged, you can clean it with warm water and mild detergent. (Do not use compressed air because it may damage the filter.) When the filter is completely dry, you can reinsert it in the pedestal or store it as a spare.

Option 21E battery pack assembly

An A0378252 Battery Pack Assembly on the NTND02 Misc/SDI/Peripheral Signaling (MSPS) Card is used in option 21E. The battery is constantly recharged through a trickle charging circuit on the NTND01 Integrated CPU/Memory (ICM) Card.

You can run a battery checking routine manually using the command BATT in the Common Equipment Diagnostic (LD 35), or as part of the midnight routines. A battery failure generates system message CED503.

Replace the battery pack every three years, even if no battery failures have occurred. For instructions on replacing the battery pack assembly, see *Meridian 1 hardware replacement* (553-3001-520).

DC-power battery systems

External batteries, often used with DC-powered systems, generally require regular visual inspections. They may also require charger or rectifier tests and pilot cell tests. Perform all inspections and tests according to the supplier's instructions.

To comply with safety requirements, consult the following articles before working with any battery systems:

- Read the “Material Safety Data Sheet” that must be posted to meet Occupational Safety and Health Administration (OSHA) requirements. This article outlines appropriate reserve battery handling procedures.
- Refer to National Electric Code 645-10. This article outlines requirements that call for the installation of AC- and DC-power kill switches to battery systems in certain environments.